

## CLAIMS

What is claimed is:

1           1.     A torque converter comprising:

2           a pump wheel;

3           a turbine wheel comprising a turbine wheel shell and a turbine wheel base  
4 connected to said shell, said turbine wheel being supported axially and radially with  
5 respect to a turbine wheel hub by a first bearing;

6           a stator provided between the pump wheel and the turbine wheel, said  
7 stator being mounted on a stator hub which is supported axially against said turbine  
8 wheel base by a second bearing located radially inside of the first bearing, said pump  
9 wheel, said turbine wheel, and said stator forming a hydrodynamic circuit,

10          a primary damper element which is acted on by the turbine wheel by way  
11 of an intermediate element; and

12          a secondary damper element which is fixed against rotation with respect  
13 to said turbine wheel hub and is connected to said primary damper element in a  
14 rotationally elastic manner by a set of springs.

1           2.     A torque converter as in claim 1 wherein the intermediate element,  
2 the turbine wheel shell, and the turbine wheel base are connected to each other by  
3 common connecting elements.

1           3.     A torque converter as in claim 2 wherein said connecting elements  
2 are rivets.

1                   4.     A torque converter as in claim 1 wherein said turbine wheel has a  
2 part against which the intermediate element rests, said part having a shape, said  
3 intermediate element conforming to said shape.

1                   5.     A torque converter as in claim 1 wherein the turbine wheel shell has  
2 an area of maximum axial dimension, said intermediate element being located radially  
3 inward of said area of maximum axial dimension.

1                   6.     A torque converter as in claim 1 wherein the intermediate element  
2 and the primary damper element each comprise teeth, the teeth of the intermediate  
3 element engaging the teeth of the primary damper element.

1                   7.     A torque converter as in claim 1 further comprising a bridging clutch  
2 connecting the pump wheel to the primary damper element.

1                   8.     A torque converter as in claim 7 wherein the bridging clutch  
2 comprises a plurality of axially aligned clutch disks.

1                   9.     A torque converter as in claim 1 wherein the primary damper  
2 element engages the secondary damper element to form a rotational angle limiter, said  
3 limiter being located radially inward of said first bearing.

1                   10.    A torque converter as in claim 9 wherein said primary damper  
2 element and said secondary damper element have teeth which engage with  
3 circumferential play to form said rotational angle limiter.

1                    11. A torque converter as in claim 1 wherein the turbine wheel hub  
2 comprises a radial web having a radially outer end provided with an axially extending  
3 flange having a radially outside surface, said first bearing being located on the radially  
4 outside surface of the flange.

1                    12. A torque converter as in claim 11 wherein said turbine wheel base  
2 extends radially inward from said turbine wheel shell, said base having a bent section  
3 which extends axially under said flange and a radially inner end, said second bearing  
4 lying against said radially inner end.

1                    13. A torque converter as in claim 1 wherein said first bearing is a plain  
2 bearing having an L-shaped cross-section.

1                    14. A torque converter as in claim 1 wherein the second bearing is a  
2 roller bearing.

1                    15. A torque converter as in claim 14 wherein the roller bearing is a ball  
2 bearing.